

**CLAIMS**

What is claimed is:

1. A method for operating a multi-mode mobile station, wherein at least two modes operate within at least one common range of frequencies, comprising:

transmitting a signal from a first antenna circuit of the mobile station in the common range of frequencies; and

electronically detuning a second antenna circuit of the mobile station such that the second antenna circuit is mis-matched to the first antenna circuit so as to reduce coupling of the transmitted signal from the first antenna circuit into the second antenna circuit.

2. A method as in claim 1, wherein the common range of frequencies comprises 1900MHz.
3. A method as in claim 1, wherein the common range of frequencies comprises 850MHz.
4. A method as in claim 1, wherein the step of detuning comprises varying an impedance of at least one component that forms a part of the second antenna circuit.
5. A method as in claim 4, wherein the at least one component is comprised of a stripline.
6. A method as in claim 4, wherein the at least one component is comprised of a PIN diode.
7. A method as in claim 4, wherein the at least one component is comprised of a variable capacitance.
8. A method as in claim 4, wherein the at least one component is comprised of a FET diode.
9. A method as in claim 3, wherein the at least one component is comprised of an active component that is put into a passive state.

10. A method as in claim 1, wherein the step of detuning comprises operating at least one switch for adding a length of strip line to, or for subtracting a length of strip line from, the second antenna circuit.

11. A method as in claim 1, wherein the step of detuning comprises operating at least one switch for connecting a length of strip line to ground, or for disconnecting a length of strip line from ground.

12. A multi-mode mobile station, wherein at least two modes operate within at least one common range of frequencies, comprising:

for each mode, a transmitter circuit comprising an antenna circuit that operates in the common range of frequencies; and

a controller, responsive to a first one of said transmitter circuits transmitting, for electronically detuning a second antenna circuit of the mobile station such that the second antenna circuit is mis-matched to the first antenna circuit so as to reduce coupling of the transmitted signal from the first antenna circuit into the second antenna circuit.

13. A multi-mode mobile station as in claim 12, wherein the common range of frequencies comprises 1900MHz.

14. A multi-mode mobile station as in claim 12, wherein the common range of frequencies comprises 850MHz.

15. A multi-mode mobile station as in claim 12, wherein the controller, when detuning, varies an impedance of at least one component that forms a part of the second antenna circuit.

16. A multi-mode mobile station as in claim 15, wherein the at least one component is comprised of a stripline.

17. A multi-mode mobile station as in claim 15, wherein the at least one component is comprised

of a PIN diode.

18. A multi-mode mobile station as in claim 15, wherein the at least one component is comprised of a variable capacitance.

19. A multi-mode mobile station as in claim 15, wherein the at least one component is comprised of a FET diode.

20. A multi-mode mobile station as in claim 15, wherein the at least one component is comprised of an active component that is put into a passive state.

21. A multi-mode mobile station as in claim 12, wherein the controller, when detuning, operates at least one switch for adding a length of strip line to, or subtracting a length of strip line from, the second antenna circuit.

22. A multi-mode mobile station as in claim 12, wherein the controller, when detuning, operates at least one switch for connecting a length of strip line to ground, or for disconnecting a length of strip line from ground.